

IN THE CLAIMS:

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Please amend the following claims:

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A1 1. (Amended) A millimeter band signal transmitting/receiving system, comprising:
a transmitter transmitting a signal wave;
a propagation path forming portion forming at least one indirect propagation path for propagation of said signal wave; and
a receiver simultaneously receiving a plurality of said signal waves from a plurality of propagation paths including a line of sight propagation path to said transmitter and said at least one indirect propagation path.

A2 3. (Amended) The millimeter band signal transmitting/receiving system according to claim 2, wherein said reflector is arranged substantially in parallel to a line of sight between said transmitter and said receiver.

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cont. 5. (Amended) The millimeter band signal transmitting/receiving system according to claim 2, wherein said reflector has a surface covered by an insulating material.

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6. (Amended) The millimeter band signal transmitting/receiving system according to claim 2, wherein said reflector has a surface covered by a transparent insulating material.

9. (Amended) The millimeter band signal transmitting/receiving system according to claim 1, wherein said receiver and said transmitter are provided inside a house,

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said propagation path includes a structural component defining an internal space of said house and reflecting a signal wave transmitted from said transmitter, and

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said transmitter is spaced by a prescribed distance from said structural component defining said internal space of said house for transmitting said signal wave at a prescribed transmission angle.

10. (Amended) The millimeter band signal transmitting/receiving system according to claim 9, wherein each of said prescribed distance and said prescribed transmission angle is determined depending on a region for propagation of said plurality of signal waves and a positional relationship between said transmitter and said receiver.

Atty. Docket No. 0033-0619P
11. (Amended) A millimeter band signal transmitting/receiving system, comprising:

a plurality of transmitters; and
a receiver arranged to simultaneously receive a plurality of signal waves output from said plurality of transmitters,
said plurality of signal waves being transmitted from said plurality of transmitters having a same frequency.

Atty. Docket No. 0033-0619P
15. (Amended) A house provided with a millimeter band signal transmitting/receiving system including a structural component defining an internal space and a millimeter band signal transmitting/receiving system, wherein said millimeter band signal transmitting/receiving system comprises:
a transmitter transmitting a signal wave;
a propagation path forming portion arranged in said structural component for forming at least one indirect propagation path for propagation of said signal wave; and
a receiver simultaneously receiving a plurality of signal waves through a plurality of propagation paths including a line of sight propagation path to said transmitter and said at least one indirect propagation path.

New Claims

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Please add the following new claims:

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18. A millimeter band signal transmitting/receiving system,
comprising:
at least one transmitter transmitting a signal through an associated
transmit antenna along a plurality of propagation paths of said signal formed
by said associated transmit antenna including a line of sight propagation path
between said associated transmit antenna and a receive antenna;
a receiver receiving the signal through said receive antenna,
wherein, in a normal state when said line of sight propagation path is
unobstructed, said receiver receives the signal through each of the plurality of
propagation paths including said line of sight propagation path, and
wherein, in an obstructed state when said line of sight propagation path
is obstructed, said receiver receives the signal through each of the plurality of
propagation paths except said line of sight propagation path.

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19. The millimeter band signal transmitting/receiving system of claim
18, wherein at least a portion of said plurality of propagation paths are formed
by at least one reflector.

20. The millimeter band signal transmitting/receiving system of claim 19, wherein said at least one reflector has a surface arranged substantially parallel to said line of sight propagation path.

21. The millimeter band signal transmitting/receiving system of claim 19, wherein said at least one reflector includes two reflectors.

22. The millimeter band signal transmitting/receiving system of claim 21, wherein at least one of said plurality of propagation paths of said signal is formed by reflection from each of said two reflectors.

23. The millimeter band signal transmitting/receiving system of claim 18, wherein said at least one transmitter is a single transmitter.

24. The millimeter band signal transmitting/receiving system of claim 18, wherein said at least one transmitter includes two transmitters and two associated transmit antennas,

wherein each of said two associated transmit antennas provides a separate line of sight propagation path to said receive antenna.

25. The millimeter band signal transmitting/receiving system of claim 24, wherein said two transmitters are synchronized with each other.

26. The millimeter band signal transmitting/receiving system of claim 25, wherein said two transmitters share a common local oscillator.

27. The millimeter band signal transmitting/receiving system of claim 18, wherein said signal is a video signal.

28. The millimeter band signal transmitting/receiving system of claim 18, wherein said line of sight propagation path between said associated transmit antenna and the receive antenna is formed in a side lobe of said associated transmit antenna.

29. The millimeter band signal transmitting/receiving system of claim 18, wherein said plurality of propagation paths of said signal except said line of sight propagation path are formed in a main lobe of said associated transmit antenna.

30. The millimeter band signal transmitting/receiving system of claim 18, wherein a portion of said plurality of propagation paths are formed by interaction with a structural component of a building.

31. The millimeter band signal transmitting/receiving system of claim 18, wherein said receive antenna is a single receive antenna.

32. The millimeter band signal transmitting/receiving system of claim 18, wherein said receiver simultaneously receives the signal through each of an unobstructed plurality of propagation paths.

33. The millimeter band signal transmitting/receiving system of claim 1, wherein said receiver receives said signal wave through said line of sight propagation path when said line of sight propagation path is not blocked.

34. The millimeter band signal transmitting/receiving system of claim 1, wherein said receiver receives said signal wave only through said at least one indirect path when said line of sight propagation path is blocked.

35. The millimeter band signal transmitting/receiving system of claim 11, wherein said receiver receives one of said plurality of signal waves through

at least one line of sight propagation path between at least one of said plurality of transmitters and said receiver.

36. The house provided with a millimeter band signal transmitting/receiving system of claim 15, wherein said receiver receives one of said plurality of signal waves through said line of sight propagation path when said line of sight propagation path is not blocked.

37. The millimeter band signal transmitting/receiving system of claim 15, wherein said receiver only receives said plurality of signal waves through said at least one indirect propagation path when said line of sight propagation path is blocked.

38. The millimeter band signal transmitting/receiving system of claim 1, wherein said at least one indirect propagation path is formed in a main lobe of a transmit antenna.

39. The millimeter band signal transmitting/receiving system of claim 1, wherein said line of sight propagation path is formed in a side lobe of a transmit antenna.

40. The millimeter band signal transmitting/receiving system of claim
15, wherein said line of sight propagation path is formed in a side lobe of a
transmit antenna.
